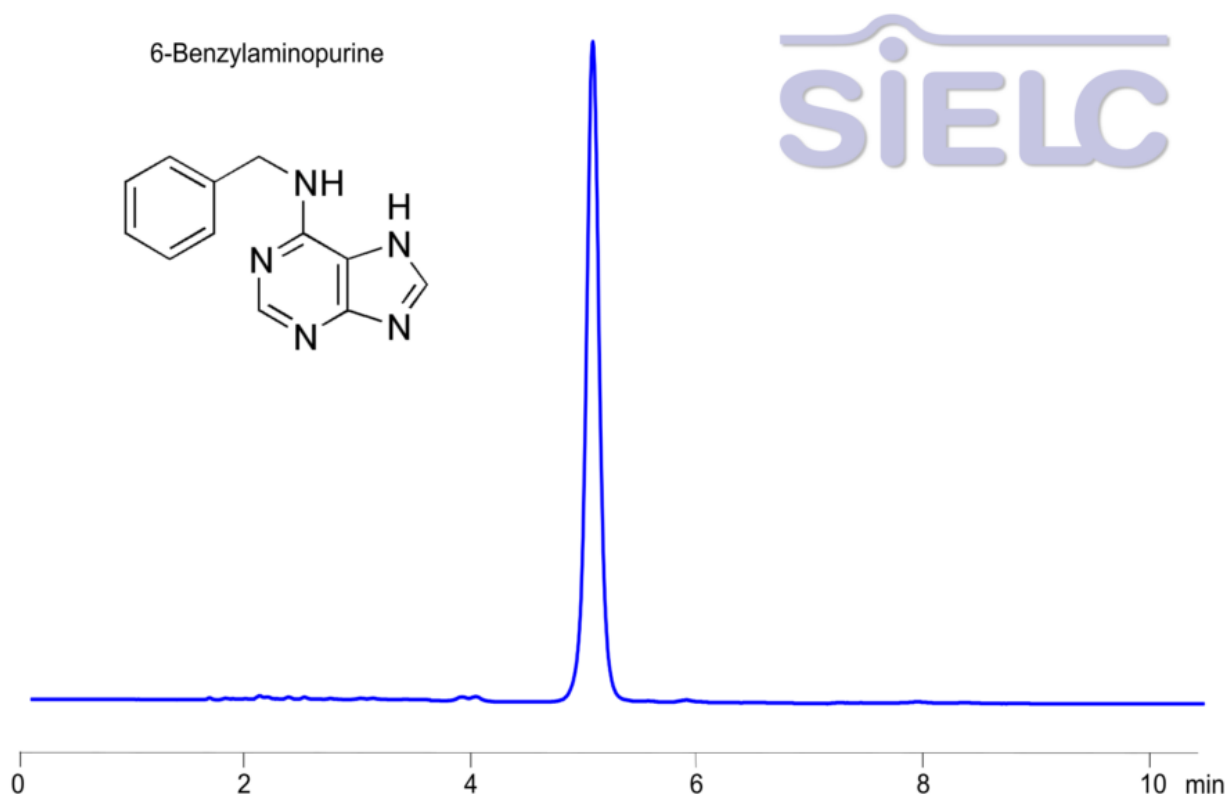


HPLC Method for Analysis of 6-Benzylaminopurine (N6-Benzyladenine) on Primesep 100 Column

<https://sielc.com/hplc-method-6-benzylaminopurine>

Chromatogram



Column:	Primesep 100
Column size:	4.6 × 150 mm, 5 µm
Column part number:	100-46.150.0510
Mobile phase:	MeCN/H ₂ O - 50/50%
Buffer:	H ₂ SO ₄ - 0.2%
Flow rate	1.0 ml/min
Detection:	UV 205 nm
Concentration:	0.04 mg/ml
Injection Volume:	2 µL
Diluent:	MeCN/H ₂ O - 50/50%
Limit of Detection:	5 ppb

Description

· Separation type: Liquid Chromatography Mixed-mode SIELC Technologies · HPLC Method for Analysis of 6-Benzylaminopurine on Primesep 100 Column

6-Benzylaminopurine (N6-Benzyladenine, 6-BAP or BAP) is a synthetic cytokinin commonly used in plant biology and tissue culture to stimulate cell division and growth. It is a potent growth regulator and is applied to enhance plant tissue differentiation, particularly for shoot induction.

6-Benzylaminopurine is one of the most commonly used cytokinins in horticulture and laboratory studies.

6-Benzylaminopurine can be retained, separated and analyzed using a Primesep 100 mixed-mode stationary phase column. The analysis employs an isocratic method with a simple mobile phase comprising water, acetonitrile (MeCN), and sulfuric acid as a buffer. This method allows for detection using UV 210 nm.

You can find detailed UV spectra of 6-Benzylaminopurine and information about its various lambda maxima by visiting the following link .

Method Parameters

Mobile Phase	MeCN – 50%
Buffer	H2SO4 -0.2%
Flow Rate	1.0 ml/min
Detection	UV 205 nm
Sample	0.1 mg/ml
Diluent	MeCN/H2O- 50/50%
LOD*	5 ppb
Class of Compounds	Phytohormone
Analyzing Compounds	6-Benzylaminopurine

HPLC Column Used

Primesep 100, 4.6 x 150 mm, 5 µm, 100 A, dual ended

[Order this column at hplc-shop.de →](https://www.hplc-shop.de)